## IN THE CLAIMS:

Please cancel Claim 10, without prejudice to or disclaimer of the subject matter thereof, and amend the remaining claims as follows:

## 1. (Currently Amended) A control apparatus for a vehicle comprising:

obstruction detection means <u>including radar apparatus</u> for measuring a headway distance <u>until to</u> an obstruction existing ahead of said vehicle by means of a radar apparatus;

means for performing vehicle control or alarm control on the basis of said headway distance;

means for detecting judging a detection performance <u>level</u> of said obstruction detection means in a vehicle in which said obstruction detection means is used to perform two or more controls <u>containing including</u> said vehicle control or alarm control; and

means for controlling to stop individually enabling or interrupting operation of said vehicle control or <u>said</u> alarm control in accordance with said detection performance individually.



2. (Currently Amended) A control apparatus for a vehicle according to Claim 1, further comprising means for notifying a vehicle driver of interruption of operation an operation stopped state of said vehicle control or said alarm control to a driver.

3. (Currently Amended) A radar apparatus mounted in a vehicle, comprising:

obstruction detection means for detecting an obstruction existing ahead of said vehicle by means of said radar apparatus;

means for acquiring a speed of the vehicle;

means for identifying a moving body from said obstruction on the basis of said speed;

means of calculating an RCS value of said moving body;

means for statistically processing said RCS value; and

means for detecting judging a detection performance <u>level</u> of said obstruction detection means on the basis of a result of said statistical processing.

4. (Withdrawn)

5. (Currently Amended) A radar apparatus mounted in a vehicle, comprising:

Cart

obstruction detection means for measuring a headway distance until to an obstruction existing ahead of said vehicle or a relative speed to the obstruction;

means for classifying detection performance of said obstruction detection means into a plurality of at least three different levels, and

means for outputting <u>a signal indicative of</u> said level <u>of</u> <u>performance.</u> <del>outside.</del>

6. (Currently Amended) A vehicle emprising: having a control apparatus according to Claim 1, and further comprising:

means for acquiring a speed of said vehicle; and

obstruction detection means for measuring a headway distance until an obstruction existing ahead of said vehicle; and

communication means for notifying conveying information concerning a relation of said vehicle and said obstruction to a driver on the basis of based on at least one of said speed of said vehicle and/or and said measured

headway distance; wherein,

wherein traveling control of said vehicle is performed on the basis of at least one of said speed of said vehicle and/or and said measured headway distance; and

said vehicle further comprising:

means for judging detection performance of said obstruction detection means;

wherein a method of by which said notification by said notifying means communication means conveys information to said driver is changed on the basis of said judged detection performance level.

7. (Currently Amended) A control apparatus of a vehicle <u>according</u> to Claim 1, wherein:

a vehicle speed is acquired;

a headway distance until an obstruction existing ahead of said vehicle is measured by means of obstruction detection means,

information concerning a relation of said vehicle and said

obstruction is notified communicated to a driver based on at least one the basis of said speed of said vehicle and/or and said measured headway distance; and

traveling control of said vehicle is performed on the basis of said speed of said vehicle and/or said measured headway distance; and 7

detection performance of said obstruction detection means is judged;

a method of said notification communication of said information to the driver is changed based on the basis of said judged detection performance level.

8. (Currently Amended) A vehicle according to Claim 6, further comprising

means for canceling said traveling control of said vehicle <u>based</u> on <u>the basis of said judged detection performance level</u>.

9. (Original) A vehicle according to Claim 8, further comprising

means for notifying the driver that said traveling control of said vehicle has been canceled.



10. (Canceled).

- 11. (Withdrawn)
- 12. (Withdrawn)

13. (Currently Amended) A vehicle according to Claim 6, wherein said means for judging <u>a</u> detection performance <u>level</u> of said obstruction detection means comprises:

means for calculating an RCS value of said detected obstruction on the basis of said speed of said vehicle and comparing a value calculated on the basis of said RCS value with a predetermined value set previously to thereby judge detection performance of said obstruction detection means.

## 14. - 16. (Withdrawn)

17. (Currently Amended) A vehicle according to Claim 6, wherein said means for judging the <u>a</u> detection performance <u>level</u> of said obstruction detection means, <u>eomprising</u>: <u>comprises</u>:

means for setting as an initial value <u>at least one</u> of a distance at which an obstruction approaching to said vehicle begins to be detected <del>and/or</del> and a distance at which an obstruction <del>going away</del> receding from said vehicle

begins to be missed when said obstruction detection means is normal;

means for calculating a current value of at least one of said distance at which said obstruction approaching to said vehicle begins to be detected and/or a current value of and said distance at which said obstruction going away receding from said vehicle begins to be missed; and

means for comparing said initial value with said current value to thereby judge the detection performance <u>level</u> of said obstruction detection means.

- 18. (Original) A vehicle control apparatus according to Claim 1, further comprising means for classifying said detection performance into a plurality of levels.
- 19. (Original) A control apparatus for a vehicle according to Claim 1, wherein said obstruction detection means is a millimeter-wave radar.